

**Attachment 2**

**Drawings**

**DTFAEN-11-R-00103**

**REPLACE RAISED FLOOR**

**AT**

**THE JACKSONVILLE AIR ROUTE TRAFFIC CONTROL CENTER (ARTCC)**

**HILLIARD, FLORIDA**



## DRAWING LIST

[illegible]

COVER AND INDEX SHEET

ARTCC

FEDERAL AVIATION ADMINISTRATION  
ATO - TECHNICAL OPERATIONS EASTERN SERVICE AREA

MILLIARD

JACKSONVILLE CENTER

REVIEWED BY

STREET NO. 100

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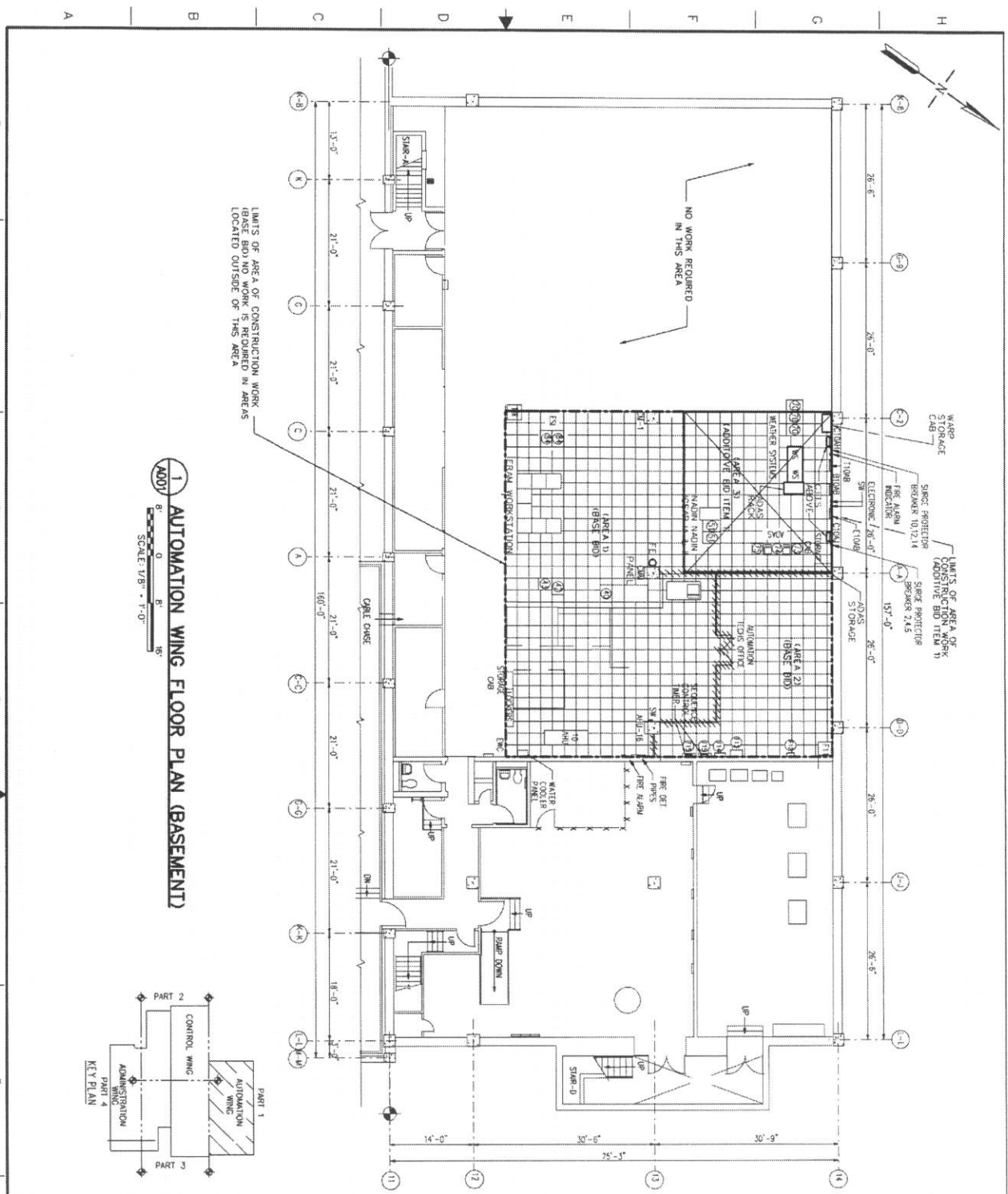
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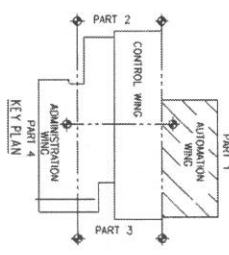
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1 AUTOMATION WING FLOOR PLAN (BASEMENT)

SCALE: 1/8" = 1'-0"



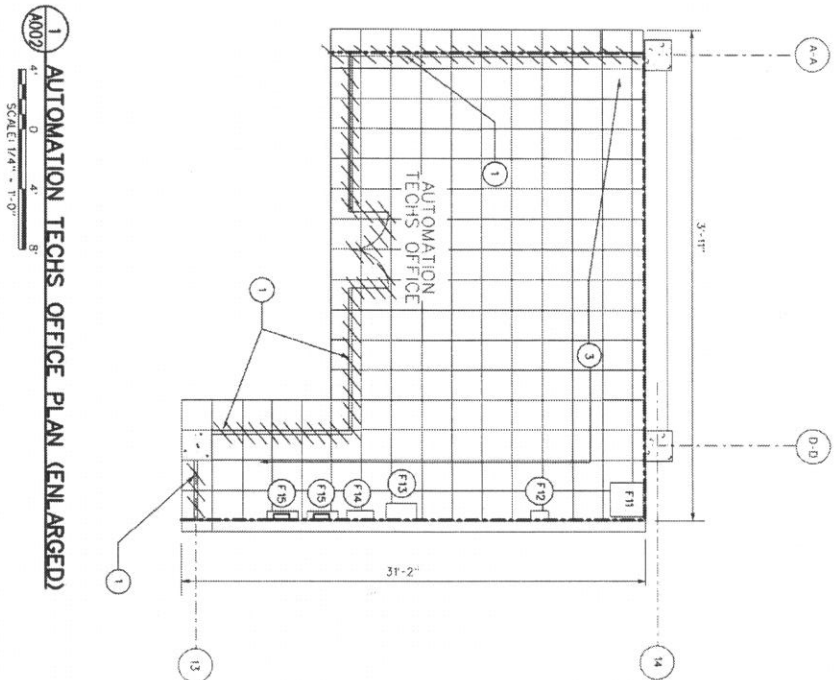
- NOTES**
1. CONTRACTOR SHALL REMOVE EXISTING FLOORING AND FLOOR TILES ENTIRELY IN THE THREE AREAS SHOWN.
  2. CONTRACTOR SHALL PROVIDE LABON TO FLOORING SYSTEM TO INCLUDE STRINGERS, FLOORING AND FLOOR TILES SHOWN IN AREA UNDER BASE BID AND ADDITIVE BID ITEM 1 (BASE BID), AND ADDITIVE BID ITEM 2 (BASE BID), AND ADDITIVE BID ITEM 3 (BASE BID), AND ADDITIVE BID ITEM 4 (BASE BID), AND ADDITIVE BID ITEM 5 (BASE BID), AND ADDITIVE BID ITEM 6 (BASE BID), AND ADDITIVE BID ITEM 7 (BASE BID), AND ADDITIVE BID ITEM 8 (BASE BID), AND ADDITIVE BID ITEM 9 (BASE BID), AND ADDITIVE BID ITEM 10 (BASE BID), AND ADDITIVE BID ITEM 11 (BASE BID), AND ADDITIVE BID ITEM 12 (BASE BID), AND ADDITIVE BID ITEM 13 (BASE BID), AND ADDITIVE BID ITEM 14 (BASE BID), AND ADDITIVE BID ITEM 15 (BASE BID), AND ADDITIVE BID ITEM 16 (BASE BID), AND ADDITIVE BID ITEM 17 (BASE BID), AND ADDITIVE BID ITEM 18 (BASE BID), AND ADDITIVE BID ITEM 19 (BASE BID), AND ADDITIVE BID ITEM 20 (BASE BID), AND ADDITIVE BID ITEM 21 (BASE BID), AND ADDITIVE BID ITEM 22 (BASE BID), AND ADDITIVE BID ITEM 23 (BASE BID), AND ADDITIVE BID ITEM 24 (BASE BID), AND ADDITIVE BID ITEM 25 (BASE BID), AND ADDITIVE BID ITEM 26 (BASE BID), AND ADDITIVE BID ITEM 27 (BASE BID), AND ADDITIVE BID ITEM 28 (BASE BID), AND ADDITIVE BID ITEM 29 (BASE BID), AND ADDITIVE BID ITEM 30 (BASE BID), AND ADDITIVE BID ITEM 31 (BASE BID), AND ADDITIVE BID ITEM 32 (BASE BID), AND ADDITIVE BID ITEM 33 (BASE BID), AND ADDITIVE BID ITEM 34 (BASE BID), AND ADDITIVE BID ITEM 35 (BASE BID), AND ADDITIVE BID ITEM 36 (BASE BID), AND ADDITIVE BID ITEM 37 (BASE BID), AND ADDITIVE BID ITEM 38 (BASE BID), AND ADDITIVE BID ITEM 39 (BASE BID), AND ADDITIVE BID ITEM 40 (BASE BID), AND ADDITIVE BID ITEM 41 (BASE BID), AND ADDITIVE BID ITEM 42 (BASE BID), AND ADDITIVE BID ITEM 43 (BASE BID), AND ADDITIVE BID ITEM 44 (BASE BID), AND ADDITIVE BID ITEM 45 (BASE BID), AND ADDITIVE BID ITEM 46 (BASE BID), AND ADDITIVE BID ITEM 47 (BASE BID), AND ADDITIVE BID ITEM 48 (BASE BID), AND ADDITIVE BID ITEM 49 (BASE BID), AND ADDITIVE BID ITEM 50 (BASE BID), AND ADDITIVE BID ITEM 51 (BASE BID), AND ADDITIVE BID ITEM 52 (BASE BID), AND ADDITIVE BID ITEM 53 (BASE BID), AND ADDITIVE BID ITEM 54 (BASE BID), AND ADDITIVE BID ITEM 55 (BASE BID), AND ADDITIVE BID ITEM 56 (BASE BID), AND ADDITIVE BID ITEM 57 (BASE BID), AND ADDITIVE BID ITEM 58 (BASE BID), AND ADDITIVE BID ITEM 59 (BASE BID), AND ADDITIVE BID ITEM 60 (BASE BID), AND ADDITIVE BID ITEM 61 (BASE BID), AND ADDITIVE BID ITEM 62 (BASE BID), AND ADDITIVE BID ITEM 63 (BASE BID), AND ADDITIVE BID ITEM 64 (BASE BID), AND ADDITIVE BID ITEM 65 (BASE BID), AND ADDITIVE BID ITEM 66 (BASE BID), AND ADDITIVE BID ITEM 67 (BASE BID), AND ADDITIVE BID ITEM 68 (BASE BID), AND ADDITIVE BID ITEM 69 (BASE BID), AND ADDITIVE BID ITEM 70 (BASE BID), AND ADDITIVE BID ITEM 71 (BASE BID), AND ADDITIVE BID ITEM 72 (BASE BID), AND ADDITIVE BID ITEM 73 (BASE BID), AND ADDITIVE BID ITEM 74 (BASE BID), AND ADDITIVE BID ITEM 75 (BASE BID), AND ADDITIVE BID ITEM 76 (BASE BID), AND ADDITIVE BID ITEM 77 (BASE BID), AND ADDITIVE BID ITEM 78 (BASE BID), AND ADDITIVE BID ITEM 79 (BASE BID), AND ADDITIVE BID ITEM 80 (BASE BID), AND ADDITIVE BID ITEM 81 (BASE BID), AND ADDITIVE BID ITEM 82 (BASE BID), AND ADDITIVE BID ITEM 83 (BASE BID), AND ADDITIVE BID ITEM 84 (BASE BID), AND ADDITIVE BID ITEM 85 (BASE BID), AND ADDITIVE BID ITEM 86 (BASE BID), AND ADDITIVE BID ITEM 87 (BASE BID), AND ADDITIVE BID ITEM 88 (BASE BID), AND ADDITIVE BID ITEM 89 (BASE BID), AND ADDITIVE BID ITEM 90 (BASE BID), AND ADDITIVE BID ITEM 91 (BASE BID), AND ADDITIVE BID ITEM 92 (BASE BID), AND ADDITIVE BID ITEM 93 (BASE BID), AND ADDITIVE BID ITEM 94 (BASE BID), AND ADDITIVE BID ITEM 95 (BASE BID), AND ADDITIVE BID ITEM 96 (BASE BID), AND ADDITIVE BID ITEM 97 (BASE BID), AND ADDITIVE BID ITEM 98 (BASE BID), AND ADDITIVE BID ITEM 99 (BASE BID), AND ADDITIVE BID ITEM 100 (BASE BID).
  3. REMOVAL AND INSTALLATION OF ACCESS BY IDENTIFIED AND COORDINATED WITH THE ARTCC.
  4. ALL EXISTING NAS EQUIPMENT MUST BE PROTECTED DURING THE DURATION OF THE PROJECT. ALL EXISTING NAS EQUIPMENT MUST REMAIN OPERATIONAL AT ALL TIMES.
  5. AIRFLOW TO NAS EQUIPMENT MUST BE PROTECTED.
  6. AFTER REMOVAL OF EXISTING FLOOR AND PRIOR TO INSTALLATION OF NEW FLOOR THE CONTRACTOR SHALL INCLUDE UP TO THREE WEEKS OF DOWNTIME TO ACTIVITIES TO PERFORM CLEAN UP ACTIVITIES.
- LEGEND**
- # NEW ACCESS FLOORING
  - ISLAND SHOWING OPERATIONAL NAS EQUIPMENT
  - EXISTING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY SEE ENLARGED FLOOR PLAN ON SHEET A002

FOR CM DETAILS SEE SD-D-1077H-001

| NO. | DESCRIPTION   | DATE       | STATUS      |
|-----|---|------------|-------------|
| 1   | REPLACE RAISED FLOOR AND INSTALL SRG IN AUTOMATION WING FLOOR PLAN (BASEMENT) | 10/27/2010 | IN PROGRESS |

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
EASTERN SERVICE AREA  
ARTCC  
JACKSONVILLE CENTER

RECEIVED BY: [Signature]  
PROJECT ENGINEER: [Signature]  
CHECKED BY: [Signature]  
DATE: 10/27/2010  
SCALE: 1/8" = 1'-0"  
SHEET NO. 10/27/2010  
ZAK-D-905683-A001



- # NOTES
1. REMOVE EXISTING PARTITION WALL SYSTEM TO INCLUDE DOORS AND MISCELLANEOUS ALLOCATION TECH SHEETS IN THE ELECTRICAL TECH OFFICE.
  2. REMOVE EXISTING SUSPENDED ACoustICAL CEILING AND LIGHT FIXTURE IN JOINTS ENTIRELY IN THE AUTOMATION TECH'S OFFICE (SEE ELECTRICAL SHEET 1003).
  3. REDRAG EXISTING VIKING FIRE CYCLE UNDERSIDE OF CEILING DECK ABOVE. RELOCATIONS SHALL BE PER NFPA 1 AND SHEETS DERIVIN FROM AIA LIVES PROTECT AND APPROVAL BEFORE BEGINNING WORK. PROVIDE SCHEDULE 40 STEEL PLATE ELECTRICAL CONDUIT FOR HEAT DETECTOR. TEST 72 HOURS BEFORE OPERATION. TEST 72 HOURS AFTER TEST REPORT IN ACCORDANCE WITH NFPA 72 AND MANUFACTURER'S GUIDE LINES.

## LEGEND

EXISTING CONSTRUCTION TO BE REMOVED TO INCLUDE PARTITION WALL SYSTEM, DOORS, FRAMES, LIGHT FIXTURES AND ASSOCIATED ELECTRICAL WIRING.

[illegible]



1. THE CONTRACTOR SHALL INSTALL SFG DURING EACH PHASE OF FLOOR REPLACEMENT. SFG IS GOVERNMENT FURNISHED. ALSO SEE NOTE 6.
2. CONNECT GATO TO PERIMETER GROUND BUS EVERY 10'-0" BY SMOKELESS EXOTHERMIC WELD. EXCEED 3 FEET.
3. THE DISTANCE FROM THE EXTERNAL WALLS OF THE ROOM TO THE SFG SHALL NOT EXCEED 3 FEET.
4. EXOTHERMIC WELD EXISTING AUTOMATION WING SFG TO NEW SFG. SEE DETAIL 4/E002.
5. SFG WILL NOT BE INSTALLED UNDER ELECTRONIC EQUIPMENT.
6. THE CONTRACTOR SHALL CAREFULLY DISCONNECT THE VESDO PIPING FROM THE FLOOR PEDESTALS DURING THE SFG INSTALLATION. REMOVE AND REINSTALL THE VESDO PIPING TO THE FLOOR PEDESTALS DURING THE SFG INSTALLATION. THE VESDO PIPING MAY BE LAID ON THE FLOOR BUT PROTECTED FROM DUST WITH A CLEAR "POLY" WRAP. THE CONTRACTOR SHALL RECONNECT THE PIPES USING EXISTING CLAMPS AT 4 FOOT INTERVALS.

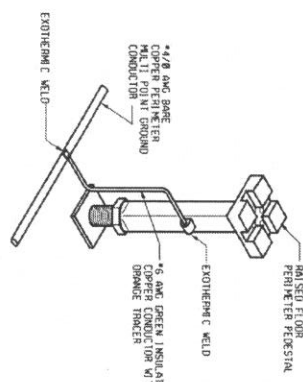
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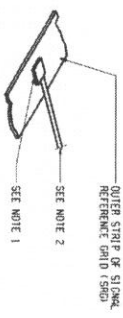
1/4" PLEXIGLASS  
COVER PLATE.  
SEE NOTES 3

MULTI-PHASE SYSTEM  
(OALY)

1. GROUND RAISED FLOOR PERIMETER PEDESTAL TO PERIMETER MULTIPOINT GROUND CONDUCTOR AT 10'-0" MAXIMUM INTERVALS.

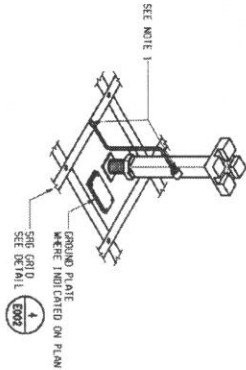


RAISED FLOOR  
2 PERIMETER PEDESTAL GROUNDING  
E002 NOT TO SCALE



## NOTES

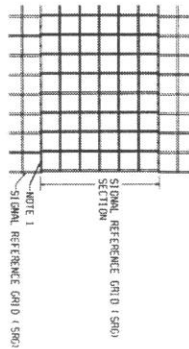
1. BOND #6 AND GREEN INSULATED W/O RANGE TRACER COPPER CONDUCTOR TO THE SRG USING EXTREME WELD. THE CONDUCTOR SHALL TAKE THE SHORTEST PATH TO THE SRG WITH LENGTH NOT EXCEEDING 4 FEET.
2. CONNECT SRG GRID TO MULTI POINT PERIMETER GROUND CONDUCTOR AT 10' - 0" MAXIMUM INTERVALS.



3  
E007

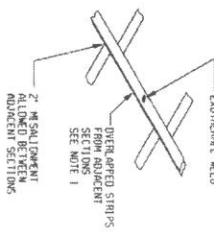
EQUIPMENT ROOM RAISED  
FLOOR PEDESTAL GROUNDING

NOT TO SCALE



**NOTE**

1. WHERE ONE ROLL OF GRID IS LAID NEXT TO ANOTHER, THE OUTER EDGES OF THE ROLLS SHALL OVERLAP TO FORM A SINGLE STRIP AND SHALL BE EXOTHERMICALLY WELDED TOGETHER AT 2 FOOT INTERVALS.



4 SRC GRID TO GRID CONNECTION  
E002 NOT TO SCALE

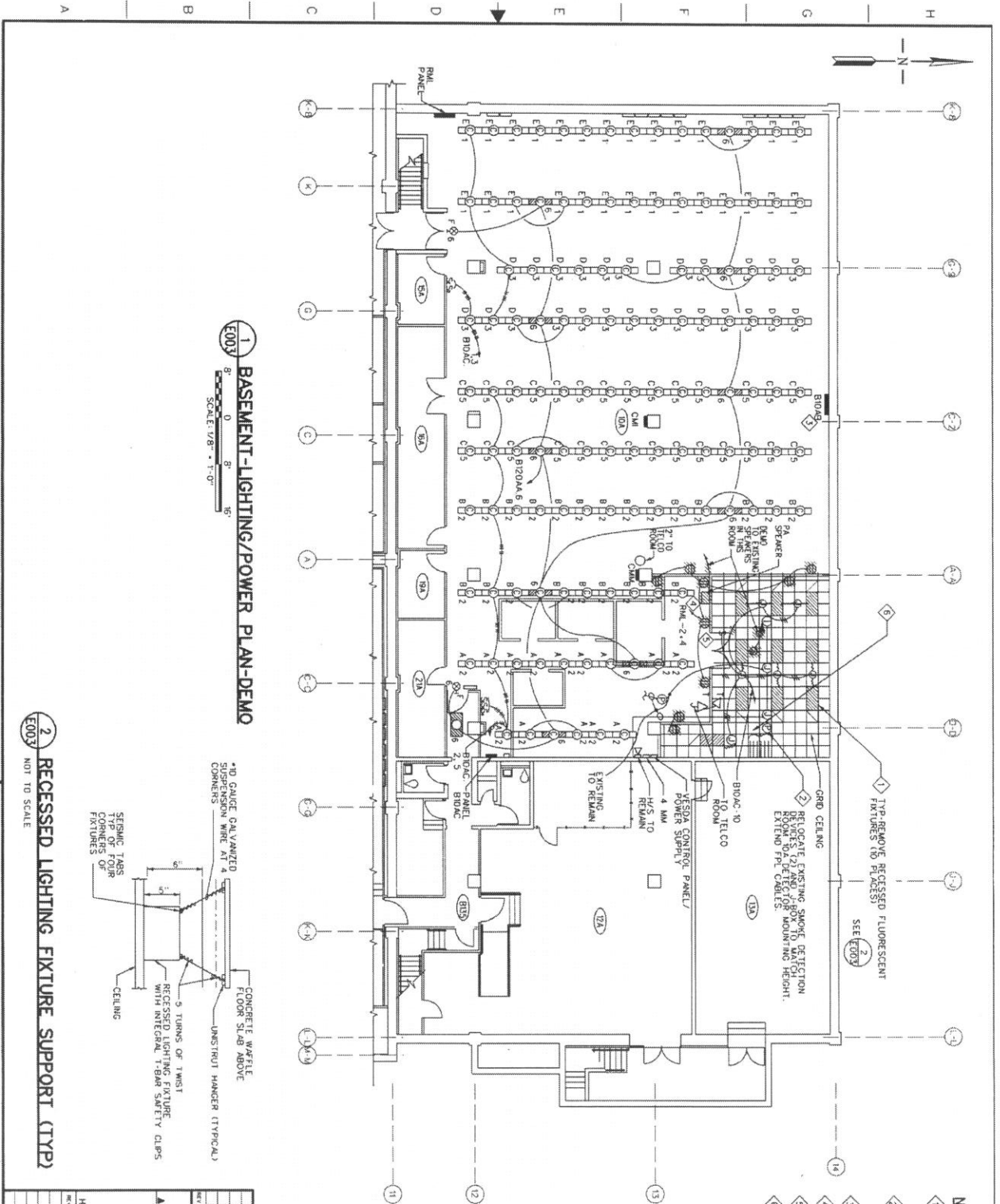
**NOTES**

1. REMOVE ALL BURRS AND SHARP EDGES.
2. GROUND CONDUCTOR IS SHOWN ON ONE END OF GROUND PLATE. INSTALL CONDUCTOR ON BOTH ENDS OF GROUND PLATE WHEN SHOWN ON PLANS.
3. FOR MULTI POINT PLATE, COVER SHALL HAVE GREEN LABEL WITH ORANGE SLASHES AND SHALL BE PERMANENTLY MARKED "MULTI POINT GROUND SYSTEM".
4. *NOT TO SCALE* AND/OR GREEN INSULATED CONDUCTOR WITH ASSOCIATED ORANGE (MULTI POINT).

**MULTIPOINT GROUND PLATE**

5 GROUND CONNECTION TO SRG  
E002 NOT TO SCALE

[illegible]



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|---|--|
| <b>1 BASEMENT-LIGHTING/POWER PLAN-DEMO</b><br>E003<br>SCALE: 1/8" = 1'-0"   |  |
| <b>2 RECESSED LIGHTING FIXTURE SUPPORT (TYP)</b><br>NOT TO SCALE  |  |
| <b>NOTES</b>  |  |
| 1. REMOVE RECESSED FLUORESCENT FIXTURES (10 PLACES), AND LIGHT SWITCH. REMOVE BRANCH CIRCUIT CONDUCTIONS AND CONDUIT BACK TO SOURCE B10AC.  |  |
| 2. RELOCATE FIRE ALARM DETECTOR TO WAFLE SLAB EXTEND CONDUCTIONS AND CONDUIT FROM EXISTING J-BOXES. SEE INSTALLATION DRAWINGS. MAINTAIN CLASS "A" INSTALLATION.                                     |  |
| 3. UNDER FLOOR BRANCH CIRCUIT TO UNDER FLOOR RECEPTACLE FROM B10AC-4-6 AND 8 TO BE REMOVED BY OTHERS.   |  |
| 4. CONDUIT AND BRANCH CIRCUITS OVERHEAD TO RAIL PANEL: REMOVE.  |  |
| 5. REMOVE RECEPTACLES, 18 PLACES. REMOVE BRANCH CIRCUIT CONDUCTOR- CONDUIT, AND DEVICE BOXES.   |  |
| 6. CONTRACTOR TO REMOVE SIX-3" GALVANIZED CONDUITS FROM FIRST UNION AT WALL TO ENTIRE LENGTH OF ROOM 11E COLUMN D-D- TO K-8) CONDUITS ARE ABOVE LIGHT FIXTURES.                                     |  |
| <b>LEGEND</b>   |  |
| EXISTING<br>NEW WORK<br>DEMO<br>EXISTING PANELBOARDS<br>RECEPTACLE<br>TELCO OUTLET<br>FIRE ALARM IONIZATION DETECTOR<br>FIRE ALARM PHOTO ELECTRIC DETECTOR<br>PA SPEAKER<br>JUNCTION BOX-4x 4       |  |
| <b>KEY PLAN</b>   |  |
| AUTOMATION WING<br>CONTROL WING<br>ADMINISTRATION WING  |  |
| DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION<br>EASTERN SERVICE AREA<br>ARTCC<br>REPLACE RAISED FLOOR AND<br>INSTALL SRG IN AUTOMATION WING<br>LIGHTING / POWER PLAN - DEMO      |  |
| HILLIARD<br>PROJECT ENGINEER<br>DATE: 10/27/2001<br>DRAWN BY: [Signature]<br>CHECKED BY: [Signature]<br>DATE: 10/27/2001<br>PROJECT NO: 0000000000<br>DRAWING NO: 0000000000<br>SCALE: 1/8" = 1'-0" |  |



